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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/773,847		02/05/2004	Dennis M. O'Connor	42P15392	7172	
8791	7590	09/29/2006		EXAMINER		
		LOFF TAYLOR &	BATAILLE, PIERRE MICHE			
	ILSHIKE B H FLOOR	OULEVARD	ART UNIT	PAPER NUMBER		
LOS ANGELES, CA 90025-1030				2186		
				DATE MAILED: 09/29/2000	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		. A	Application No. Applicant(s)						
Office Action Summary			0/773,847	O'CONNOR, DE	O'CONNOR, DENNIS M.				
			xaminer	Art Unit					
		Р	ierre-Michel Bataille	2186					
Period fo	The MAILING DATE of this commun or Reply	nication appear	rs on the cover sheet	with the correspondence	address				
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Status									
1)	Responsive to communication(s) fil	ed on <i>05 Febr</i>	uary 2004						
2a)□	•	_	tion is non-final.						
3)□									
٠,٣	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)⊠	Claim(s) 1-24 is/are pending in the	application.							
,	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-24</u> is/are rejected.								
7)									
8)□	Claim(s) are subject to restri	ction and/or el	ection requirement.						
Applicat	ion Papers								
9)[	The specification is objected to by the	ne Examiner.							
10)	The drawing(s) filed on is/are	: a)□ accept	ed or b)□ objected	to by the Examiner.					
	Applicant may not request that any obje	ection to the dra	wing(s) be held in abe	yance. See 37 CFR 1.85(a)	•				
	Replacement drawing sheet(s) includin	g the correction	is required if the draw	ing(s) is objected to. See 37	CFR 1.121(d).				
11)	The oath or declaration is objected t	o by the Exam	iner. Note the attacl	ned Office Action or form	PTO-152.				
Priority ι	under 35 U.S.C. § 119				•				
-	Acknowledgment is made of a claim ☐ All b)☐ Some * c)☐ None of:		•	C. § 119(a)-(d) or (f).					
	1. Certified copies of the priority								
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	3. Copies of the certified copies	•		en received in this ination	iai Stage				
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2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (		Paper	No(s)/Mail Date					
	mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date <u>02/09/06</u> .			of Informal Patent Application					

Application/Control Number: 10/773,847 Page 2

Art Unit: 2186

## **DETAILED ACTION**

1. The present Office Action is taken in conjunction to examination of the instant application filed 05 February 2004, which presents claims 1-24 for examination.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-24 are rejected under 35 U.S.C. 102(e) as being anticipated by US 6,754,784 (North et al).

With respect to claims 1, 11, and 17, North discloses circuits, system, and method for information privatization in personal electronic appliances such as handheld personal electronic appliances or portable digital audio player (Col. 1, Lines 24-43) comprising:

an antenna (general principle of hand held devices, i.e. inherent in all above noted appliances);

a memory (flash card, Flash memory, SDRAM, TLB, write buffer, Fig. 1a, 1B); and

Application/Control Number: 10/773,847

Art Unit: 2186

a processor coupled to the antenna and memory (central processing unit CPU), the processor comprising: an address generation unit (CPU having address generation unit generating addresses); and a memory management unit configured to receive a virtual address from the address generation unit and provide a corresponding physical address (memory management unit (MMU) for translating virtual addresses to physical addresses; Col. 3, Lines 48-59).

Page 3

the memory management unit comprising: a storage containing one or more virtual address-to-physical address translations (translation look aside buffer (TLB) encahing translated entries and providing translation to associated access control logic); conversion logic to generate a modified virtual address from the virtual address (access control logic for the translation of virtual addresses into modified virtual addresses); and a page table walk unit configured to convert the modified virtual address into the corresponding physical address (translation table walking logic providing translation to the associated access control logic) [Col. 3, Lines 48-66; Col. 17, Lines 25-42].

With respect to claim 2, North discloses the memory management unit wherein the conversion logic is configured to replace one or more bits of the virtual address with a process identifier if the one or more bits comprises a predetermined value [Col. 17, Lines 45-50].

Art Unit: 2186

With respect to claim 3, North discloses the memory management unit wherein the predetermined value is zero [Col. 4, Lines 44-51; Col. 19, Lines 4-15].

With respect to claim 4, North discloses the management unit is configured to receive the virtual address from an arithmetic logic unit [Col. 4, Lines 44-51; Col. 19, Lines 4-15]..

With respect to claim 5, North discloses the memory management unit wherein the memory management unit is configured to receive the virtual address from an incrementor [Col. 4, Lines 44-51; Col. 19, Lines 4-15].

With respect to claims 6-7, North discloses the memory management wherein the virtual address comprises an instruction address, a virtual address [Col. 12, Lines 13-19.

With respect to claims 8-9, North discloses the memory management unit wherein the one or more virtual address-to-physical address translations are invalidated upon updates to a process identifier [Col. 3, Lines 53-65; Col. 17, Lines 45-58].

With respect to claims 9-10, North discloses the memory management unit; wherein the storage is configured to store one or more most recently generated virtual address-to-physical address translations [Col. 3, Lines 53-65].

With respect to claims 12-16 and 18-24 which correspond to claims 2-10, North discloses the invention as addressed in the claim analysis with respect to claims 2-10 above.

Application/Control Number: 10/773,847 Page 5

Art Unit: 2186

## Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 2004/0024839 (Okochi et al) teaching translation look aside buffer and physical page map table providing translation of virtual addresses to physical addresses.

US 6,772,315 (Perego) discloses translation look aside buffer extended to provides physical and main memory addresses.

US 6,751,583 (Clarke et al) teaches translation system with multi level lookup table mapping translated virtual addresses to physical addresses.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pierre-Michel Bataille whose telephone number is (571) 272-4178. The examiner can normally be reached on Mon-Fri (8:00A to 4:30P).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew M. Kim can be reached on (571) 272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Pierre-Michel Bataille Primary Examiner Art Unit 2186

September 21, 2006

PIERRE BATAILLE PRIMARY EXAMINER